

**Room I #204** 13:30-15:30**[Tu-I2]** Hybrid Materials and Processing Technologies IV**Session Chairs:**

Il Woo Ock (KAIST, Korea),  
Peng Tao (Shanghai Jiao Tong Univ., China)

**Tu-I2-1 [Invited]** 13:30-14:00**Strategic Architectures of Silicon Nanolayer-Embedded Graphite Hybrid for High Energy Lithium-Ion Battery Anodes**

Min Sung Ko  
*Pukyong Nat'l Univ., Korea*

**Tu-I2-2** 14:00-14:15**Preparation of Titanium Dioxide Hollow Fiber using Electrospinning Technique for Gas Sensor**

Chaturon Nettonglang<sup>1</sup> and Santi Meansiri<sup>1,2</sup>  
<sup>1</sup>*Suranaree Univ. of Tech., Thailand*, <sup>2</sup>*SUT-NANOTECH CoE on Advanced Functional, Thailand*

**Tu-I2-3 [Invited]** 14:15-14:45**Hybrid Materials for Efficient Solar-Thermal Energy Storage and Evaporation-based Applications**

Peng Tao, Zhongyong Wang, Qinxian Ye, Zizhao Wang, Yingying Chen, Jinwei Lou, and Tao Deng  
*Shanghai Jiao Tong Univ., China*

**Tu-I2-4** 14:45-15:00**Homogeneously Ordered Pseudocapacitive Polymer Chain Anode and Sub-Nanoscale Metal Oxide Cathode for Aqueous Hybrid Capacitors Enabling High Energy and Power Densities along with Long Cycle Life**

Il Woo Ock, Sang Jun Kim, and Jeung Ku Kang  
*KAIST, Korea*

**Room J #205** 13:30-15:30**[Tu-J2]** Thin Film SOFC**Session Chairs:**

Don-Hyung Ha (Chung-Ang Univ., Korea),  
John Thomas Sirt Irvine (Univ. of St. Andrews, UK)

**Tu-J2-1 [Invited]** 13:30-14:00**Thin Film Technology for High Performance Low-Temperature Solid Oxide Fuel Cells**

Jihwan An, Seongkook Oh, Hyong June Kim, Jeong Woo Shin, Byung Chan Yang, and Dohyun Go  
*Seoul Nat'l Univ. of Sci. and Tech., Korea*

**Tu-J2-2 [Invited]** 14:00-14:30**Thin Film Electrode for Intermediate-Temperature Solid Oxide Fuel Cell**

Young-Wan Ju  
*Wonkwang Univ., Korea*

**Tu-J2-3** 14:30-14:45**Study on Various Cathode Materials for Low-Temperature Solid Oxide Fuel Cells using Pulsed Laser Deposition**

Donghwan Kim<sup>1,2</sup>, Jung Hoon Park<sup>2</sup>, Joon Hyung Shim<sup>1</sup>, and Ji-Won Son<sup>2,3</sup>  
<sup>1</sup>*Korea Univ., Korea*, <sup>2</sup>*KIST, Korea*, <sup>3</sup>*Korea Univ. of Sci. and Tech., Korea*

**Tu-J2-4 [Invited]** 14:45-15:15**Double Columnar Dense Cathode for Intermediate Temperature Solid Oxide Fuel Cells**

Byeong Su Kang and Tatsumi Ishihara  
*Kyushu Univ., Japan*

**Tu-J2-5** 15:15-15:30**Evaluation of Physical and Electrochemical Properties of Low-Temperature SOFC Anode with Improved Redox Cycle Stability**

Jung Hoon Park<sup>1,2</sup>, Mansoo Park<sup>1</sup>, Ho-Il Ji<sup>1</sup>, Hyoungchul Kim<sup>1</sup>, Kyung Joong Yoon<sup>1</sup>, Jong-Ho Lee<sup>1,3</sup>, Seung Min Han<sup>2</sup>, and Ji-Won Son<sup>1,3</sup>  
<sup>1</sup>*KIST, Korea*, <sup>2</sup>*KAIST, Korea*, <sup>3</sup>*Korea Univ. of Sci. and Tech., Korea*